

FISHER SCIENTIFIC, CHEMICAL DIV. -- BENZENE -- 6810-00-753-4778

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Product Identification
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Product ID: BENZENE

MSDS Date: 01/08/1996

FSC: 6810

NIIN: 00-753-4778

MSDS Number: CFLCW

=== Responsible Party ===

Company Name: FISHER SCIENTIFIC, CHEMICAL DIV.

Address: 1 REAGENT LANE

City: FAIR LAWN

State: NJ

ZIP: 07410

Country: US

Info Phone Num: 201-796-7100 OR 201-796-7523

Emergency Phone Num: 201-796-710

0/800-424-9300 (CHEMTREC)

CAGE: 1B464

=== Contractor Identification ===

Company Name: FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address: 1 REAGENT LANE

Box: City: FAIRLAWN

State: NJ

ZIP: 07410-2802

Country: US

Phone: 201-796-7100

CAGE: 1B464

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Composition/Information on Ingredients
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Ingred Name: BENZENE (SARA 313) (CERCLA)

CAS: 71-43-2

RTECS #: CY1400000

Fraction by Wt: >99%

Other REC Limits: NONE RECOMMENDED

OSHA PEL: SEE 1910.1028

ACGIH TLV: 10 PPM; A2; 9596

EPA Rpt Qty: 10 LBS

DOT Rp

t Qty:10 LBS

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===== Hazards Identification =====
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LD50 LC50 Mixture:LD50 ORAL RAT =930MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:EYE:IRRIT,CORNEAL

INJURY.SKIN:IRRIT,ABSORBED THRU SKIN IN HARMFUL

ATMS.INGEST:ASPIRATION HAZ.CNS DEPRESSDEATH DUE TO RESP

FAILURE,ASPIRATION INTO LUNGS MAY CAUSE CHEM

PNEUMONITIS-FATAL.INHA:RESP TRACT IRRIT,CN

S

EFFECTS/DEPRESS.IRREVERSIBLEINJURY TO BONE MARROW,IRRIT EYE/RESP

TRACT.CHRONIC:CAN HAZ W/LAB ANIMALS.(SUPPL)

Explanation of Carcinogenicity:PER MSDS:CARCINOGENICTY:ACGIH-A2 SUSP

HUMAN CARC;CA-CARC;NIOSH-OCCUPAT CARC;NTP-KNOWN CARC;OSHA-SELECT

CARC;IARC-GROUP1

Effects of Overexposure:EYE:BURN SENS,RED,TEAR,INFLAMM,CORNEAL

INJURY.SKIN:REDNESS,VESIVULATION.INGEST:EXITEMENT,HEAD,DIZZ,DROWS,N

AU,COLLAPSE,UNCONSC,COMA,DEATH.INHAL:HEAD,CONVULS,DEATH,DROWS,UNONC

,CNS DEPRES

S.EUPHORIA,NAU,S TAGGERING GAIT,COMA,VERTIGO,LOSS OF

APETITE,ABD DISCOMFT,BLUR VISION,DIFFI BREATH,WEAK,MUC MEMB/SKIN

PALE,HEMNORRHAGIC

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures =====
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First Aid:EYE:FLUSH W/LOTS OF H2O FOR @LEAT 15MIN,OCCASIONALLY LIFT

UP/LOW LIDS.GET MED AID IMMED.SKIN:GET MED AID IMMED.IMMED FLUSH

W/PLENTY OF SOAP/WATER FOR @LEAST 15MINS WHILE REMOVING CONTAM

CLOTH/SHO

ES.IN GEST:DONT INDUCE VOMIT.CONSC/ALERT GIVE2-4C

MILK/H2O.POSSIBLE ASPIRATION HA.GET MED AID IMMED.INHAL:GET MED AID

IMMED.REMOVE TO FRESH AIR IMMED.NOT BREATH GIVE ART RESP;DIFFI GIVE

OXY.DR:TREAT (SUPP)

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===== Fire Fighting Measures =====
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Flash Point:12F,-11C

Autoignition Temp:Autoignition Temp Text:928F

Lower Limits:1.3

Upper Limits:7.1

Extinguishing Media:USE WATERSPRAY TO COLL FIRE-EXPO CNTNRS.IN CASE OF

FIRE USE WATERSPRAY,DRY CHEMICAL,CO

2, CHEM FOAM.

Fire Fighting Procedures:WEAR SCBA IN PRESSURE-DEMAND

MSHA/NIOSH(APPROV/EQUIV)FULL PROT GEAR.H2O RUNOFF CAN CAUSE ENVIRO
DMG.DIKE/COLLECT.USE WATERSPRAY OT KEEP FIRE-EXPO CNTNR COOL.

Unusual Fire/Explosion Hazard:VAP CAN TRAVEL TO SOURCE OF IGN &
FLASHBACK.EXTREMELY FLAMM.MATL WILL READILY IGNITE @RM TEMPS.

===== Accidental Release Measures =====

Spill Release Procedures:USE PROPER PPE PER MSDS.USE H2OSPRAY TO DIL
SPILL TO NONFLAMM.AVOI

D RUNOFF INTO STORM SEWER/DITCH LEADS TO

H2OWAYS.WEAR SCBA,APPROP PPE.DISPERSE GAS/VAP W/2HOSPRAY.REMOVE ALL
IGN SOURCES.ABSORB USING ABSORBENT,NON-COMBUST
MATL-EARTH,SAND,VERMICULITE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:GROUND/BOND CNTNR WHEN TRANSF MATL.USE
SPARK-PROOF TOOLS/EXPLO PROOF EQPMT.DONT GET IN EYE/SKIN/CLOTH.DONT
INGEST/INHAL.USE ONLY IN CHEM FUM
E HOOD.

Other Precautions:EMPTY CNTNR RETAIN PROD RESIDUE(LIQ &/OR
VAP)-DANGEROUS.DONT

PRESSUREIZE/CUT/WELD/BRAZE/SOLDER/DRILL/GRIND/EXPO EMPTY CNTNR TO
HEAT SPARKS/OPN FLAME.KEEP AWAY FROM HEAT/SPARK/FLAME/IGN
SOURCES.STORE I N TIGHTLY CLSD CNTNR IN COOL DRY (SUPPL)

===== Exposure Controls/Personal Protection =====

Respiratory Protection:FOLLOW OSHA RESPIRATOR REGULATIONS FOUND IN
29CFR1910.134.ALWAYS USE NIOSH APPROVED RESPIRATOR WHEN NECESSARY.

Ventilat

ion:USE ONLY IN CHEMICAL FUME HOODS.

Protective Gloves:IMPERVIOUS GLOVES

Eye Protection:APPROP PROT EYEGLASSE,CHEM SAF GOGG

Other Protective Equipment:WEAR APPROP PROT CLOTH TO PREVENT SKIN
EXPO.EYE PROT:29CFR1910.133.

Work Hygienic Practices:WASH WELL AFT HNDLG.REMOVE CONTAM CLOTH-WASH
BEF REUSE.

Supplemental Safety and Health

HEALTH:PROL/REP EXPO MAY CAUSE ADVERSE REPROD EFFECTS,BONE MARROW ABN
W/DMG TO BLOOD FORM TISSUES.INCR LEUKEMIA,MULTIPLE
MYELOMAS,IMMUNODEPRESS EFFECTS,DR

Y/SCALY DERM/2ND INFECTIONS.

1ST AID: SYMPT/SUPP . INCOMP: ANHYDRIDE, NITRUL
PERCHLORATE, OXY, OZONE, PERCHLORATES, PERCHLORYL
FLUORIDE+AL₃CL, PERMANGANATES+H₂SO₄, AGCLO₄, K₂O₂.

===== Physical/Chemical Properties =====

HCC:F2

Boiling Pt: B.P. Text: 176F, 80C

Melt/Freeze Pt: M.P/F.P Text: 42.0F, 5.6C

Decomp Temp: Decomp Text: N/AVAI

Vapor Pres: 100

Vapor Density: 2.7

Spec Gravity: 0.88

pH: N/AVAI

Viscosity: 0.647MPA @20C

Evaporation Rate & Reference: 2.8, ETHER=1

Solubility

in Water: 0.18G/110G H₂O @25C

Appearance and Odor: LIQUID, COLORLESS, SWEET, AROMATIC ODOR

Percent Volatiles by Volume: NP

Corrosion Rate: NP

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

ARSENIC PENTAFLUORIDE+K, OXIDANTS, URANIUM HEXAFLUORIDE, BROME
PENTAFLUORIDE, CHLORINE, CHLORINE TRIFLUORIDE, CHROMIC (SUPPLE)

Stability Condition to Avoid: INCOMPATIBLES MATLS, IGNITON
SOURCES, EXCESS HEAT.

Hazardous Decomposition Products: IRRITATIN
G & TOXIC FUMES & GASES

===== Disposal Considerations =====

Waste Disposal Methods: DISPO IN MANNER CONSISTEN W/FED/STATE/LOC
REGS. BANNED FROM LAND DISPO ACCORDING TO RCRA. RCRA WASTE
#-D018, U019.

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